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Outboard Marine Corporation (OMC) Site Waukegan, IL

Remedial Progress Update
March 2008



OMC Site - Operable Units

- 1: Waukegan Harbor
- 2: Waukegan Manufactured Gas and Coke Plant (“Waukegan Coke Plant” or “WCP”)
- 3: PCB Containment Cells
- 4: OMC Plant 2 (“OMC North Plant”)

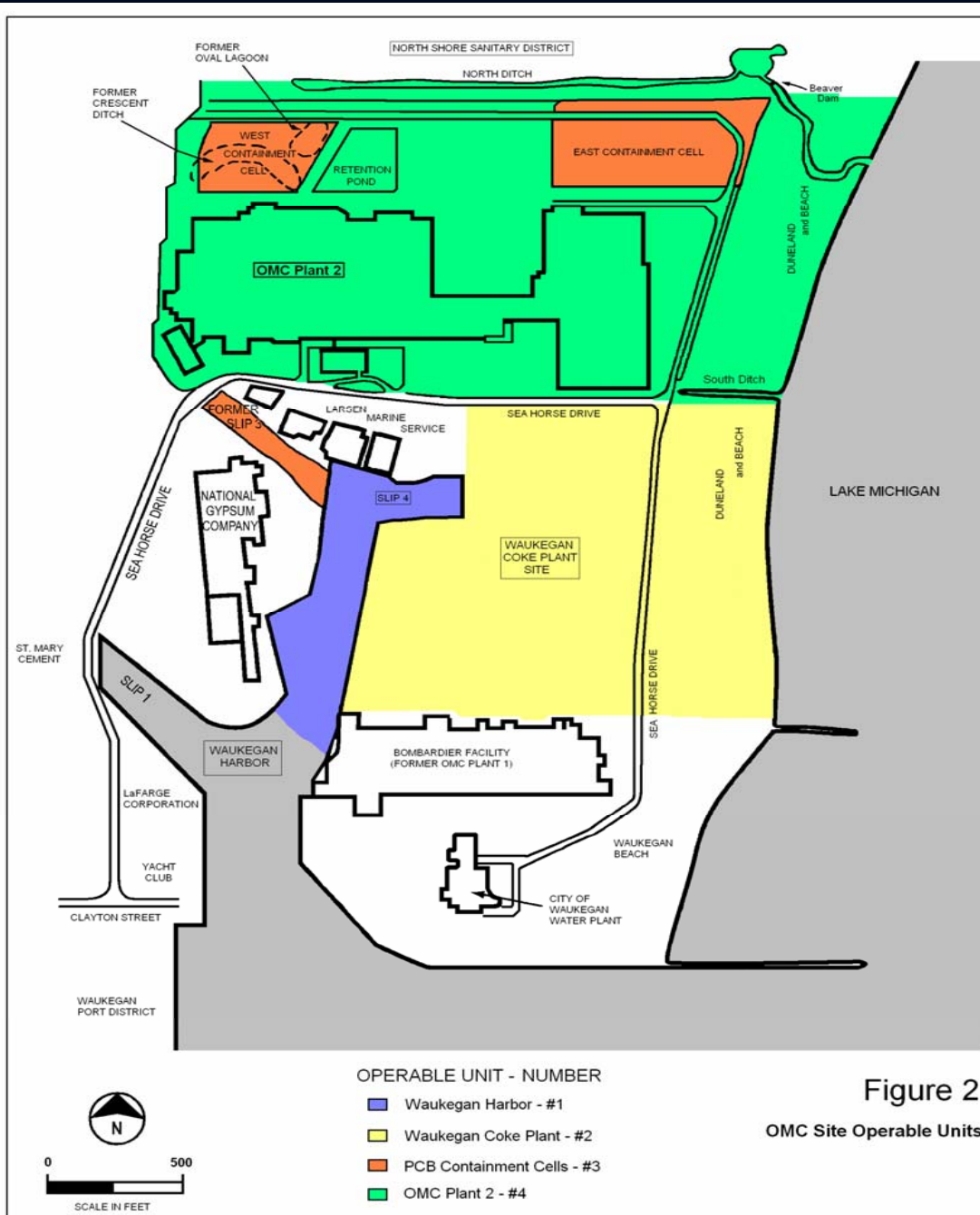


Figure 2
OMC Site Operable Units

Waukegan Harbor

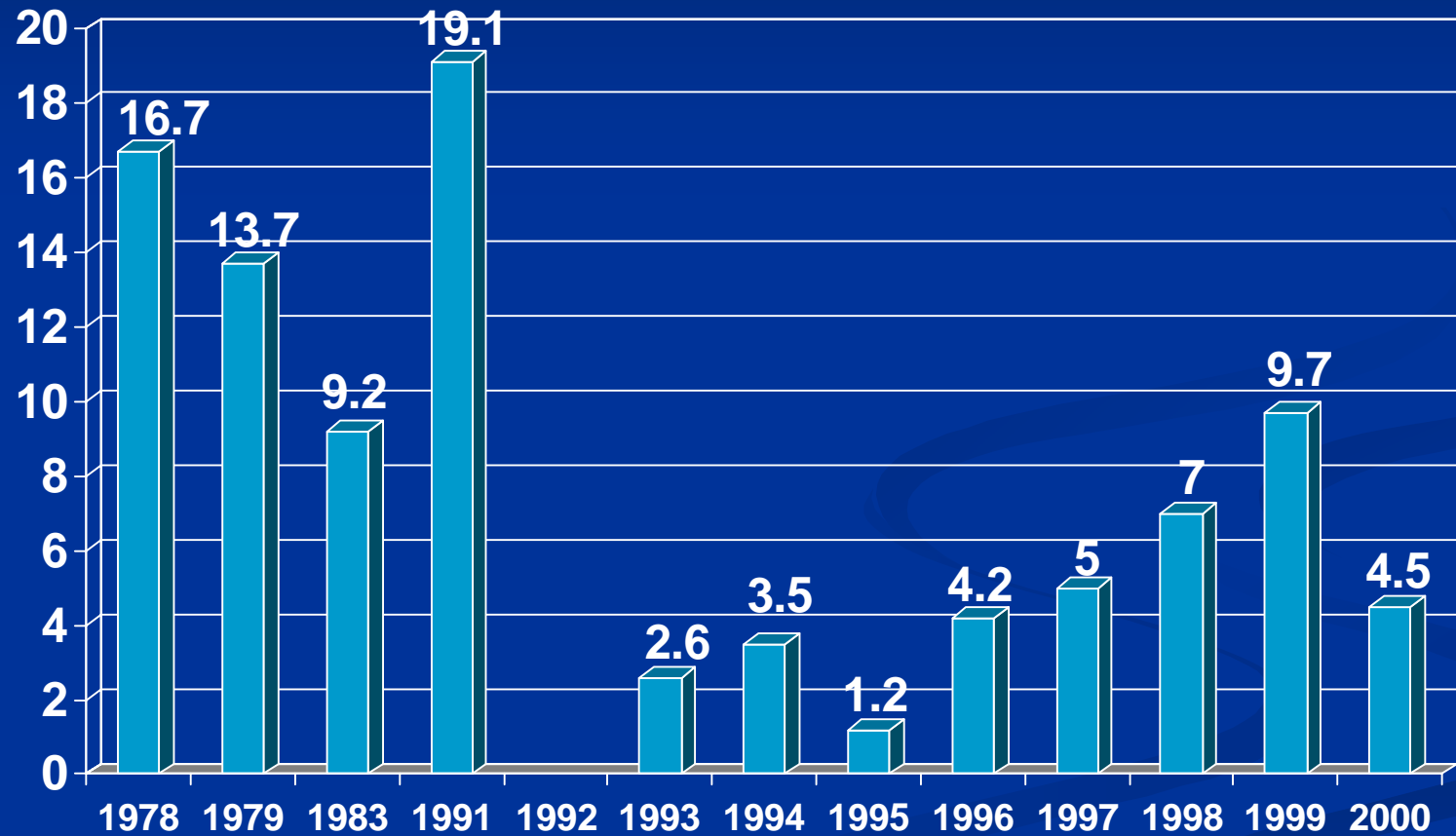
Background

- OMC completed \$21 million cleanup in 1990-1992.
- Only Northern Harbor area was dredged.
- 50 ppm PCB cleanup level (1984 ROD)

Waukegan Harbor Background

- Fish PCB levels fell immediately after OMC cleanup.
- Fish PCB levels presently exceed recommended levels.
- 2002 and 2007 EPA 5-Year Reviews: 50 ppm PCB sediment cleanup level is not protective.

Waukegan Harbor Fish PCB Levels



Waukegan Harbor

Background

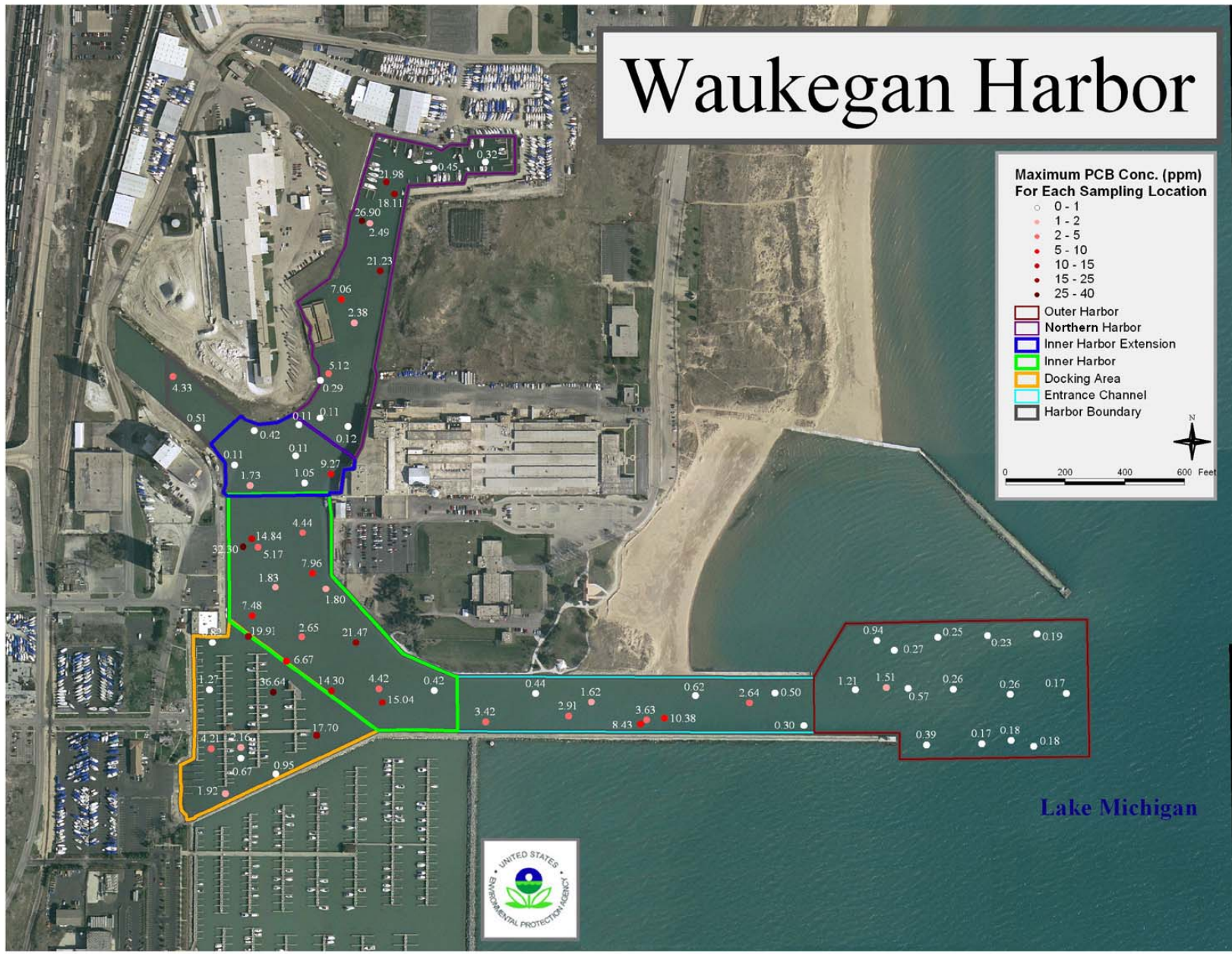
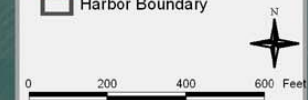
- 2007 Five-Year Review: 0.22 ppm PCB sediment cleanup level is protective.
- Harbor sediment now averages 2-3 ppm PCBs.

Waukegan Harbor

Maximum PCB Conc. (ppm)
For Each Sampling Location

- 0 - 1
- 1 - 2
- 2 - 5
- 5 - 10
- 10 - 15
- 15 - 25
- 25 - 40

- Outer Harbor
- Northern Harbor
- Inner Harbor Extension
- Inner Harbor
- Docking Area
- Entrance Channel
- Harbor Boundary



Lake Michigan



Waukegan Harbor

- Proposed \$35 million Great Lakes Legacy Act (“GLLA”) project fell through in September 2007.
- Superfund began a Remedial Investigation and Feasibility Study (“RI/FS”) in mid-November 2007 using GLNPO data.
- RI and Alternatives Evaluation Reports are now in EPA-review status.

Waukegan Harbor Alternatives

- The FS Report is due by the end of March.
- No Action
- Complete capping
- Combination capping and dredging
- Complete dredging (with some cover)

Waukegan Harbor Target Dates

- Superfund Division Director approves proposed remedial action by April 2008
- NRRB evaluation June 2008 (Materials due May 1)
- Release Proposed Plan and begin Public Comment Period – Summer/Fall 2008
- Sign Record of Decision – Fall/Winter 2008

Waukegan Harbor Target Dates

- Complete Remedial Design - Fall 2009
- Prioritization Panel – Rank site for cleanup funding in winter 2009
- Remedial Action start – depends on ranking; the earliest would be spring 2010

Waukegan Harbor

- EPA's Contaminated Sediment Technical Advisory Group ("CSTAG") will provide a concurrent technical review with NRRB.
- State Concurrence – On-going consultation with Illinois EPA; meeting with State planned late-March 2008 to discuss proposed alternatives.

Fund Lead Sites

- Site must be ranked on a national basis for funding by EPA's RA Prioritization Panel; ranking is based on risk.
- Must have State concurrence with the selected remedy and a signed State Superfund Contract ("SSC") wherein the State agrees to pay required 10 percent of the cost of the clean up.

Waukegan Harbor

- Continue partnerships cultivated during Great Lakes Legacy Act project discussions.
- Work closely with Waukegan as all OMC site cleanups are planned and implemented.
- Could there be other contributors to harbor cleanup cost? (Betterment; state match)

Waukegan Coke Plant





Waukegan Coke Plant

- Soil cleanup was completed November 2005.
- Groundwater pump-and-treat targeted to begin in summer 2008.

Waukegan Coke Plant



Waukegan Coke Plant

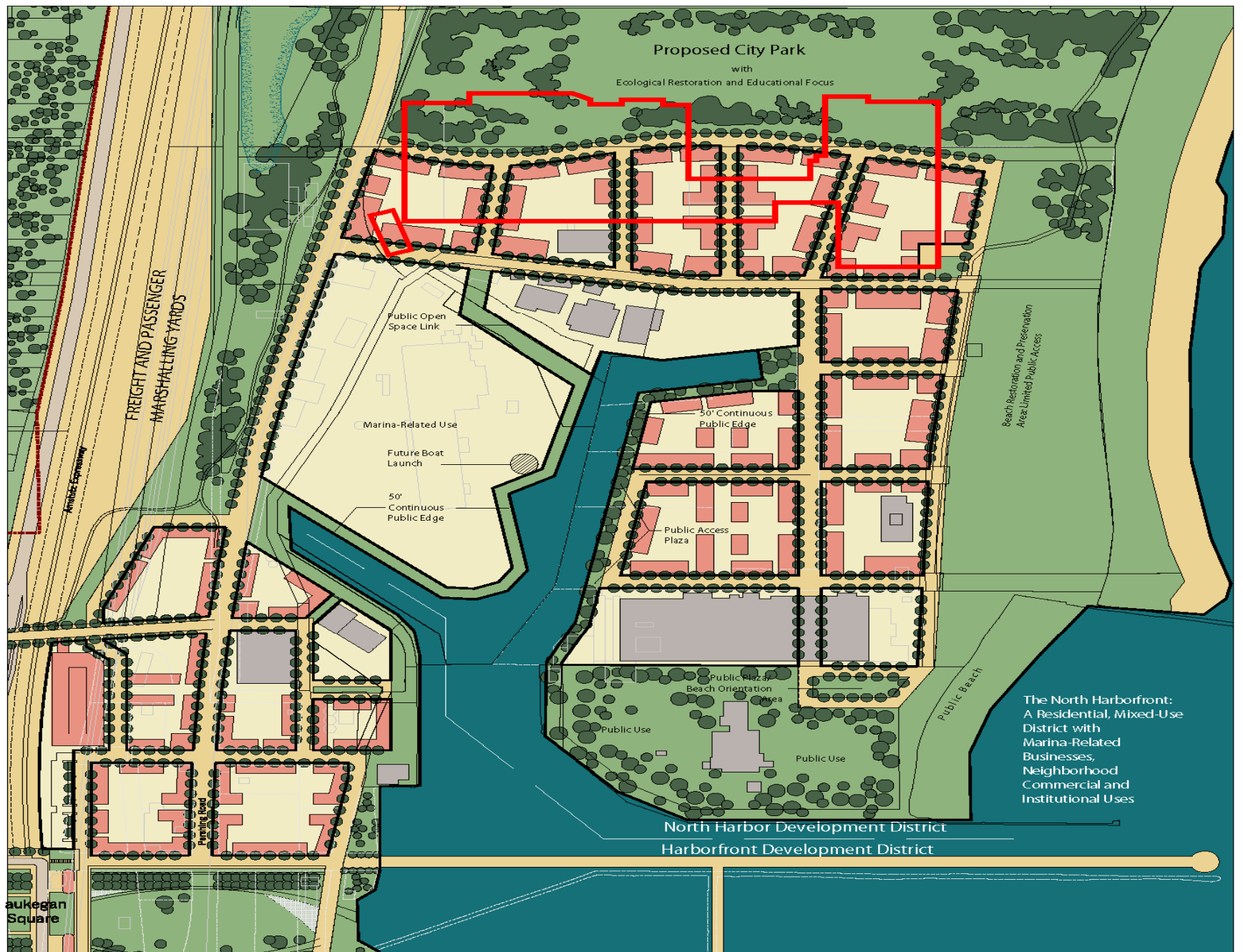


Waukegan Coke Plant

- Active groundwater work to last 3-8 years.
- Estimated total cleanup costs are \$28 million.

Waukegan Coke Plant Re-use

- City to issue redevelopment Request for Proposals “soon.”
- May include portions of OMC Plant 2 property as well.



Waukegan Coke Plant

Waukegan Coke Plant planning questions:

- Place layer of harbor sediments over site?
- Use property as lay-down area for harbor work?

PCB Containment Cells





PCB Containment Cells



- Three cells constructed by OMC to hold harbor cleanup materials.
- OMC operated and maintained the cells until it abandoned the OMC Plant 2 facility in December 2002.
- EPA (Superfund Removal program) maintained cells from 2002-2003.

PCB Containment Cells

- Illinois EPA maintained cells from 2003-2005.
- City now maintains cells under terms of 2005 consent decree leading to ownership of OMC Plant 2 property.
- EPA is working with City and Larsen Marine to re-use former Boat Slip #3 containment cell.



OMC Plant 2





OMC Plant 2

- OMC sent workers home permanently on December 20, 2000.
- OMC Bankruptcy Trustee announced potential abandonment of facility in mid-2002.

OMC Plant 2

- RPM requested immediate Removal Program inspection of the facility.
- EPA and OMC Trustee reach settlement for initial cleanup of facility by Trustee in mid-2002; OMC Plant 2 is abandoned in December 2002.
- EPA performed second removal action in 2002-2003.

OMC Plant 2



OMC Plant 2

- EPA began RI/FS at the site in 2003.
- EPA performed additional removal actions at site in 2005 (beach), 2007 (copper), and 2008.
- First ROD issued for building, area soil and sediment in September 2007 (\$21 million).

OMC Plant 2

- Remedial Design started in mid-2007; completion targeted for spring 2008.
- State to pay 10 percent of OMC Plant 2 cleanup costs.
- Building and soil cost estimate is approaching \$30 million.

OMC Plant 2 – Cleanup Steps

- Fund Lead – RA Prioritization Panel to secure funding
- Phase 1- Asbestos abatement prior to demolition
- Phase 2 - Soil cleanup
- Phase 3 - Building demolition

OMC Plant 2 - Asbestos



OMC Plant 2 - Lead-based Paint

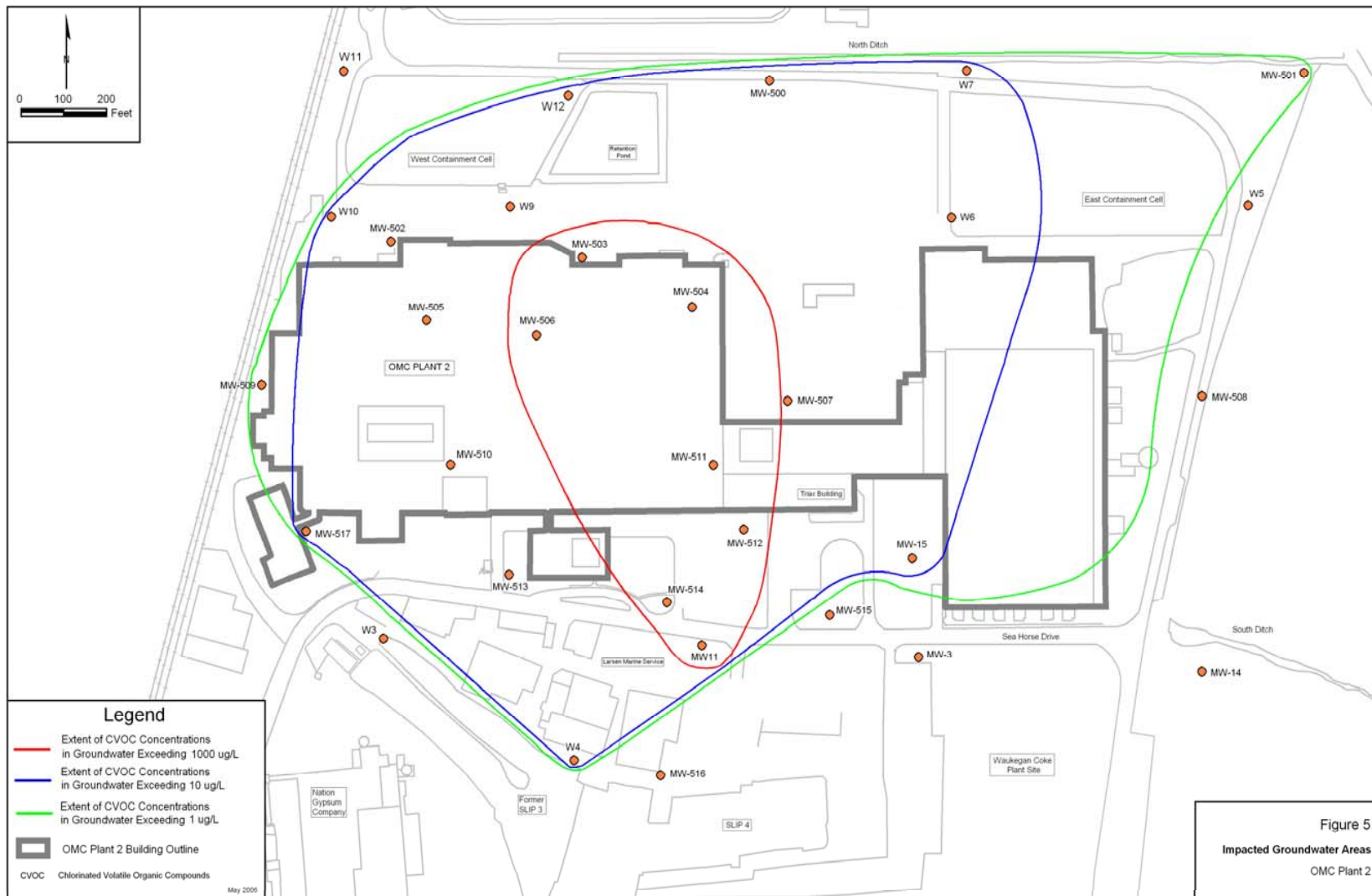


OMC Plant 2

- Phase 1 cost estimate: \$4-5 million
- Phase 2 cost estimate: \$5-6 million
- Phase 3 cost estimate: \$20 million

OMC Plant 2 – Additional Work

- Groundwater FS update due in spring 2008.
- Proposed groundwater cleanup plan targeted for summer 2008.
- Looking at in-situ cleanup remedies.



OMC Plant 2

- Groundwater ROD targeted for fall 2008
- Completion of groundwater Remedial Design targeted for fall/winter 2009.
- Groundwater cleanup work could begin in 2010, pending funding availability and Prioritization Panel ranking.

OMC Plant 2

OMC Plant 2 planning questions:

- Use site for harbor sediment consolidation area?
- Use existing “Trim Building” slab for harbor water treatment plant site?

OMC Site – Final Thoughts

- All Federal-lead cleanup funding is subject to availability and Prioritization Panel ranking.
- Total OMC site cleanup costs are estimated at \$130 million when all operable units are cleaned up.
- \$50 million would be private funds; rest would be public funds.